

REQUEST FOR ENGINEERING INFORMATION (REI)

1. ORIGINATOR NAME/PHONE NO. VIC POLTRICK 804-279-5945	2. ORG/CODE DSCR-JFTA	3. CONTRACT OR SCHEDULE NUMBER	4. REI NUMBER 01-A12101
5. NSN/PART NOMENCLATURE 3120-01-190-2258	6. DWG./PART NO. AFFECTED 6532C423-1	7. MODEL/END ITEM	8. REQUEST DATE 12/17/01
9. SUPERVISOR	10. INSPECTOR	11. REFERENCE DOCUMENT DSCR-06-02-02141	PAGE 1 OF 7

DESCRIPTION OF PROBLEM

12.

1. PROCURING ACTIVITY HAS REQUESTED REVIEW OF COMPLETE TECHNICAL DATA PACKAGE FOR PROCUREMENT OF PART NUMBER LISTED ABOVE. IF NECESSARY, PLEASE PROVIDE TO POC BELOW (UNDER REI NUMBER IN BLOCK 4 ABOVE), A COPY OF ALL TECHNICAL DATA, INCLUDING QUALITY ASSURANCE REQUIREMENTS AND DRAWINGS, REQUIRED FOR PROCUREMENT OF ITEM. PLEASE STATE IN NAVAIR COMMENT BLOCK 14, IF THIS IS A CRITICAL SAFETY ITEM. ALSO INDICATE IF FIRST ARTICLE TESTING AND/OR PRODUCTION LOT TESTING ARE REQUIRED.

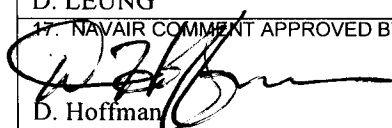
2. ORIGINATOR IN BLOCK 1 ABOVE HAS PROVIDED THE FOLLOWING INFORMATION:
 PROVIDE THIS ACTIVITY WITH THE NECESSARY TECHNICAL DATA TO SUPPORT PROCUREMENT REQUIREMENTS TO MEET ALL MINIMUM REQUIREMENTS AS APPLICABLE TO THE ALRE WEAPON SYSTEM TO INCLUDE ALL APPLICABLE TECHNICAL DRAWINGS (TDP/TDR) AND ENGINEERING SPECIFIC REQUIREMENTS AND DEFINITIVE QUALITY ASSURANCE REQUIREMENTS. ALL AVAILABLE DATA HAS BEEN IDENTIFIED/FURNISHED IN SUPPORT OF THIS REQUEST. LATEST REVISION OF REQUIRED DRAWING AVAILABLE AT DSCR IS 6532C423 REV E CAGE 80020, PREVIOUS REI/TDR HAS NOT BEEN ESTABLISHED AND OR IS NOT KNOWN TO DSCR. NOTE REFERENCE TO CAGE 80020 P/N 6532C423-1 IS NOT CITED IN THE CURRENT DLIS TIR (SEE ATTACHED). THIS ITEM IS CURRENTLY SETUP AT DSCR AS SOURCE CONTROL IN ACCORDANCE WITH CAGE 36344 P/N 6532C423-1. BASED ON WSIC 82N MOA, REQUEST REVIEW OF THE SUBJECT NSN AND ADVISE IF CAGE 80020 DWG 6532C423-1 APPLIES AND CLARIFY IS VALID SOURCE CONTROL AS NSN DLIS RECORD RNCC 7/2 APPLIES".

3. POC FOR THIS REQUEST AT NAVICP-P IS BILL MURPHY, CODE 0731.24 AND PHONE 215-697-1195/DSN 442-1195.

NAVAIR COMMENT

13. CRITICALITY OF ITEM: (PICK ONE)	CSI:	CAI: x	NONE:
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14. TDR PROVIDED BEGINNING ON PAGE 2.

15. CHANGE DRAWINGS MANUALS MRC's ECP REQ'D	16. NAVAIR COMMENT PREPARED BY D. LEUNG	PHONE NUMBER (732) 323-1597	DATE 1/28/02	CODE 4.8.10.2
	17. NAVAIR COMMENT APPROVED BY  D. Hoffman	PHONE NUMBER X1602	DATE 1/28/02	CODE 4.8.10.2

Revision date: 11/8/00

6532C423-1

REVISION E

ABOVE TITLE BLOCK, "SPECIFICATION CONTROL DRAWING", IN LIEU OF SOURCE CONTROL DRAWING.

IN CURRENT DESIGN ACTIVITY BLOCK, NAVAL AIR WARFARE CENTER (SUPERSEDING "NAVAL AIR ENGINEERING CENTER").

IN GENERAL REQUIREMENTS BLOCK, ASME Y14.5M (SUPERSEDING "ANSI Y14.5").

IN NOTE 1, NAVAL AIR WARFARE CENTER (SUPERSEDING "NAVAL AIR ENGINEERING CENTER").

DISREGARD NOTE 4, IN LIEU THEREOF THE FOLLOWING SHALL APPLY:

4. REQUIREMENTS:

4.1. DESIGN AND CONSTRUCTION: ITEM IS A SELF-LUBRICATING THRUST BEARING DESIGNED FOR A 1.500 INCH DIAMETER SHAFT. FIRST ARTICLE RBC BEARING IS CONSTRUCTED OF ZINC PLATED MILD STEEL WITH WOVEN PTFE LAMINATED TO ONE FACE. REFERENCE DIMENSIONS ON DRAWING APPLY TO RBC BEARING ONLY.

4.2. PERFORMANCE: ITEM SHALL BE RATED FOR INTERMITTENT DUTY AT 8,800 PSI AND 35 FPM AT AN OSCILLATION ANGLE OF 90 DEGREES.

ITEM SHALL WITHSTAND A STATIC COMPRESSIVE STRESS OF 20,000 PSI WITHOUT FUNCTIONAL DEGRADATION.

COEFFICIENT OF FRICTION SHALL NOT EXCEED .25 ON HARD STEEL (RC32) WITH SURFACE FINISH OF 32 MICROINCHES FOR APPLICATIONS AND ENVIRONMENTS LISTED ON THIS DRAWING.

4.3. ENVIRONMENTAL: ITEM WHEN INSTALLED SHALL MEET THE HUMIDITY, TEMPERATURE (EXPOSED EQUIPMENT), AND SALT FOG REQUIREMENTS OF MIL-R-85111 (AS), PARA. 3.4.5.

PERFORMANCE SHALL NOT DEGRADE BELOW SPECIFIED LIMITS WHEN BEARING IS EXPOSED TO THE FOLLOWING FLUIDS: HYDRAULIC OIL, GREASE, JET FUEL (JP-5), LUBRICATING OILS, DETERGENT SOLUTIONS, AND SEA WATER.

DISREGARD NOTE 5, IN LIEU THEREOF THE FOLLOWING SHALL APPLY: INSPECTION ACCEPTANCE SHALL INCLUDE THE FOLLOWING:

5.1. DIMENSIONS ON DRAWING.

5.2. EVIDENCE OF CONFORMANCE TO NOTE 4.

DISREGARD NOTE 6.

ADD AS NOTE 7: CLASSIFICATION OF CHARACTERISTICS IS TO BE INTERPRETED IN ACCORDANCE WITH DOD-STD-2101.

IDENTIFY THE FOLLOWING FEATURES AS MAJOR: NOTES 4 AND 7.

ON SHEET 2 DRAWING: ADD PARENTHESIS AROUND 1.531 +.020/-.000 DIMENSION INDICATING FOR REFERENCE ONLY.

ON SHEET 2, IN GENERAL REQUIREMENTS BLOCK, ASME Y14.5M (SUPERSEDING "ANSI Y14.5-1973").

NOTE 1:

SECTION 326 OF THE 1993 DEFENSE AUTHORIZATION ACT PLACES RESTRICTIONS ON THE USE OF CLASS I OZONE DEPLETING SUBSTANCES (ODS). UNTIL SUCH TIME AS THESE CLASS I ODS'S ARE ELIMINATED FROM MILITARY DRAWINGS AND SPECIFICATIONS (INCLUDING SECOND TIER, I.E., THOSE SPECIFICATIONS LISTED IN THE SPECIFICATIONS LISTED ON THE DRAWINGS), THE FOLLOWING SHALL APPLY:

1. THE CONTRACTOR SHALL USE A GOVERNMENT APPROVED NON-OZONE DEPLETING SUBSTANCE.

2. IF A GOVERNMENT APPROVED NON-OZONE DEPLETING SUBSTANCE IS UNKNOWN/ UNAVAILABLE, THE CONTRACTOR SHALL CONTACT 4.8.1.4 AT NAWCAD LAKEHURST FOR AN ACCEPTABLE SUBSTITUTE, AN ALTERNATE PROCESS OR A WAIVER OF THE REQUIREMENT.

SEE ATTACHED PAGES FOR QUALITY ASSURANCE REQUIREMENTS.

Ser 4.8.13B148-2/01-A12101
7 January 2002

From: Head, Prototype Manufacturing and Quality Assurance Division
Naval Air Systems Command, Lakehurst, NJ (4.8.13)
Hwy #547, Lakehurst, NJ 08733-5125

To: Commanding Officer, Naval Inventory Control Point, Philadelphia
Attn: Code 0731.12, Charles Johnson
700 Robbins Avenue, Philadelphia, PA 19111

Subj: BEARING, THRUST, P/N 6532C423-1, REV. E, NSN 3120-01-190-2258

Encl: (1) QM1006 #01-A12101

1. The Quality Assurance requirements for the subject procurement are listed in enclosure (1) and shall be used in conjunction with REI 01-A12101. If a conflict exists with regard to identifying the criticality of this item of ALRE/SE, the higher level of criticality shall apply.
2. Any deviations from these quality requirements will need prior approval from Naval Air Systems Command, Lakehurst, Code 4.8.13.2.
3. If you have any questions on this matter or additional information is required, please advise.


RICH HEADLEY

SUPPLEMENTAL CONTRACT QUALITY REQUIREMENTS

NAVAIR has established the following Quality Assurance requirements to be used in procurement of the material identified below.
Additional amplifying information is available via separate correspondence.

REI/TDR NUMBER: 01-A12101

DATE: 7 January 2002

NAME: BEARING, THRUST NSN: 3120-01-190-2258

CIC=Y (CRITICAL)

PART NO. 6532C423-1 REV: E

A: SOURCE SELECTION

1. Pre-award survey with NAVAIR QA participation required? Yes ☐ (See attached, para 1) No ☒
(Can be waived by NAVAIR based on a given supplier's history)
2. Post Award with NAVAIR QA participation required? Yes ☐ (See attached, para 2) No ☒
(Can be waived by NAVAIR based on given supplier's history)
3. Recommended Sources based on recent, documented Quality performance:
(Recommended sources do not need a pre-award survey by NAVAIR QA)
 - a. None

B: INSPECTION AND ACCEPTANCE POINT

1. Preliminary Inspection Point: Source ☒ Destination ☐
2. Acceptance Point: Source ☒ Destination ☐

C: QUALITY LETTER OF INSTRUCTION:

1. Quality Assurance Letter of Instruction Required? YES ☐ (See attached, para 3) NO ☒

D: QUALITY ASSURANCE STANDARD

1. Higher Level Quality program per FAR 52.246-11 YES ☒ NO ☐
2. Standard Quality program per FAR 52.246-2 YES ☒ NO ☐
(Must use if higher level selected)

E: NAVAIR INSPECTION WITNESS OPTION:

1. NAVAIR option to witness final inspection required? YES ☒ (See attached, 4) NO ☐
2. NAVAIR option to witness interim inspections required? YES ☐ (see below) NO ☒
 - a.
 - b.
 - c.

F: CONFIGURATION CONTROL:

Configuration control in accordance with MIL-STD-973 is required. The approval authority for all major and minor waivers and deviations shall be NAWCADLKE Code 4.8.10.

G: QUALITY CONFORMANCE AND LOT SAMPLING INSPECTIONS:

1. NAVAIR specified Quality Conformance Inspection plan with sampling rates? Yes ☒ (See attached, para 5) No ☐

H: RECEIPT INSPECTION

1. Receipt Inspection Certification required? Yes ☐ No ☒
2. Point of Certification? NAVAIR Lakehurst ☐ Source with contractor assist ☐

I: FIRST ARTICLE TEST

1. First Article Testing required? Yes ☐ (see attached para 6) NO ☒
2. Place of Testing Performance. Source ☐ Government ☐ Both ☐

See attached for detailed First Article Testing requirements, associated data deliverables, and estimated costs.

J: PRODUCTION LOT TESTING

1. Production Lot Testing required? Yes ☐ (see attached para 7) NO ☒
2. Place of Testing Performance. Source ☐ Government ☐ Both ☐

See attached for detailed Production Lot Testing requirements and estimated costs.

K: DATA DELIVERABLES:

- Data deliverables required? Yes ☐ see attached DD 1423 forms No ☒

L: ALRE FLIGHT CRITICAL COMPONENT NOTICE

1. ALRE Flight Critical Component notice required? Yes ☐ No ☒

M: CERTIFICATE OF QUALITY COMPLIANCE

1. Certificate of Quality Compliance Required? Yes ☒ No ☐

N: OTHER PART SPECIFIC AND UNIQUE REQUIREMENTS

QUALITY ASSURANCE REQUIREMENTS:

The paragraphs shown below, when referenced on the QM1006 checklist, provide the detailed Quality Assurance requirements to be used for the particular procurement. These paragraphs shall only apply when the corresponding "Yes" block has been checked on the associated checklist.

1. Due to the critical use of this material and/or it's quality history, a preaward survey is required. Unless specifically waived by NAWC Quality Assurance, NAWC quality assurance personnel shall participate in this survey. Notify the NAWC Quality Assurance branch, Code 4.8.M.2, Jim Gooch, (732)-323-7504; telefax (732) 323-7234, of all pending preaward surveys associated with this procurement.
2. A contract Post Award conference is required for this procurement. This may be waived by NAWC Quality Assurance based on the results of the preaward survey.
3. The procuring activity shall issue a Quality Assurance Letter of Instruction (QALI) to the appropriate Adminstrating Contract Office instructing the authorized government Quality Assurance Representative as follows:
 - a. Features/attributes/requirements classified as Critical on the drawing(s) or within the technical specification shall be inspected 100%
 - b. Features/attributes/requirements classified as Major on the drawing(s) or within the technical specification shall be inspected using an AQL of 1.0 as defined by ANSI Z1.4
 - c. Minor features/attributes/requirements shall be per the QAR's established procedures.
 - d. The QAR will invoke government source inspection via delegation for all work on Critical and Major features/attributes/requirements performed by sub-contractors which cannot be verified upon receipt by the prime contractor.
4. The solicitation/contract shall contain the NAWCADLKE inspection surveillance clause as follows:

Because of the critical nature of this material, a representative of the Naval Air Warfare Center Aircraft Division Lakehurst (NAW-CADLKE) is available to furnish technical assistance on Quality Assurance (QA) matters and shall have the option of conducting QA surveillance for the first lot produced under this contract (and all subsequent lots if necessary). This requirement will be performed in conjunction with the Quality Assurance Representative (QAR) of the cognizant Defense Contract Management Command and does not abrogate the authority or responsibility of the designated QAR. The contractor agrees to notify, in writing, the supervisor of the NAWC QA section Code, 4.8.13. 2, Lakehurst, NJ 08733-5035 and the NAVICP Mechanicsburg Contracting Officer when material is scheduled to be presented to the DCMC QAR for Government inspection and acceptance. This notice shall afford the NAW-CADLKE QA representative the option of being present during the inspection. Notification to NAWC may be provided via telephone (732)-323-7504 immediately followed by written conformation, or via facsimile transmission (FAX 732-323-1381). A minimum of fourteen (14) working days is required to arrange the surveillance visit.
5. The contractor shall perform Quality Conformance and Lot Sampling Inspection for all associated features that are present in the drawings and specifications:
 - a. Features/attributes/requirements classified as Critical and Major on the drawing(s) or within the technical specification shall be inspected 100%;
 - b. Unless otherwise specified, attributes for plating, hardness, and non-destructive testing shall be inspected 100%;
 - c. Class 3 Threads, dimensions, and geometric feature controls with a tolerance range of .010 or less shall be inspected using an AQL of 1.5 and the General Inspection Level II as defined by ANSI Z1.4
 - d. Minor Characteristics: Sampling rate determined by contractor subject to QAR approval.